



**Course:** Web and Mobile Application Development (CS3077)

# College Bazaar

*A Smart Marketplace for Students to Buy and Sell*



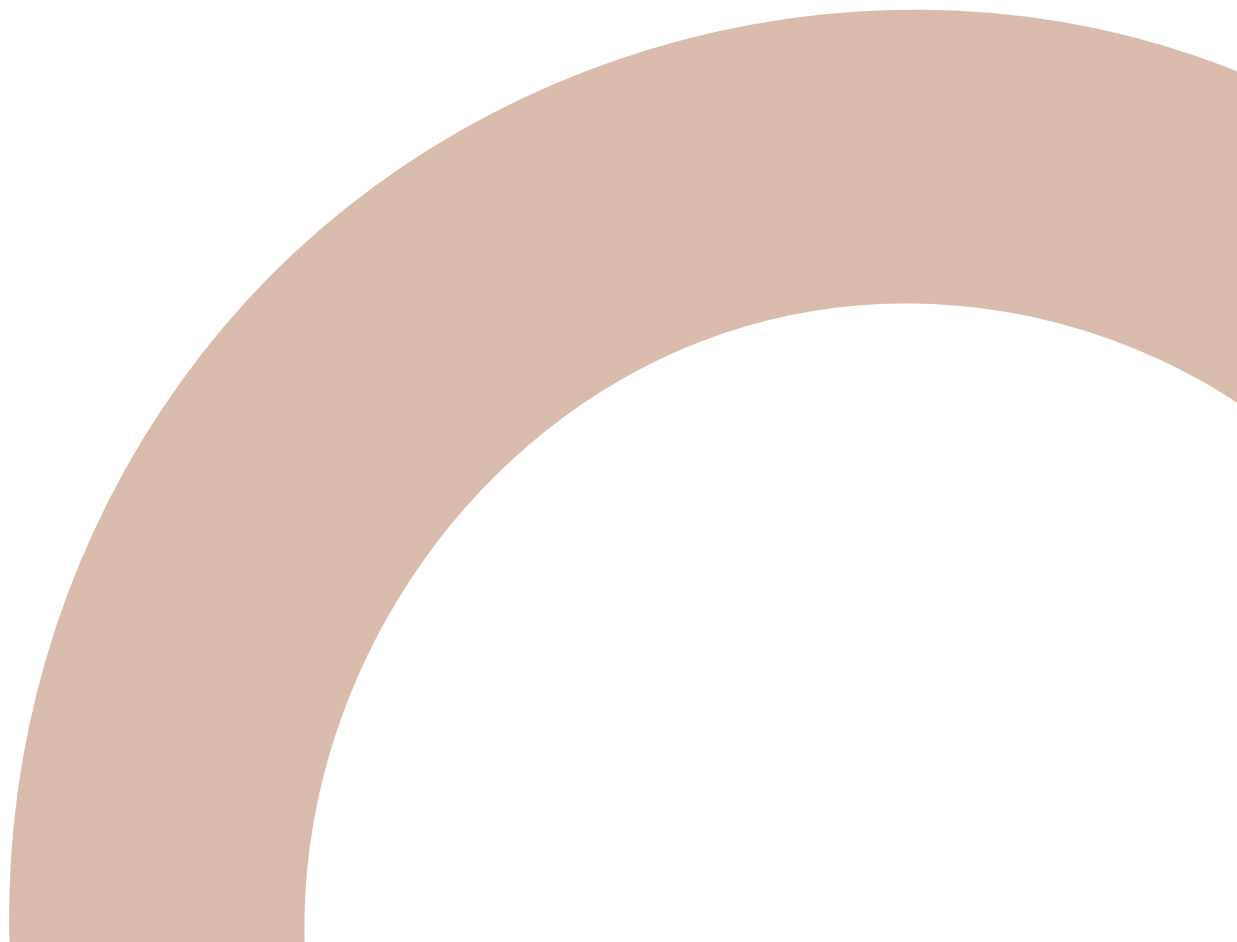
**By:**

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# Contributions

Components I have worked on:

- Frontend/Client
  - Backend/Server
  - Database
  - Authentication & Authorization
  - UI
  - SRS Report
  - PPT
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# PROJECT OVERVIEW



## Objective:

- To create a digital marketplace exclusively for college students, enabling them to trade used goods easily, securely, and within their campus boundaries.

## Vision:

- To make campus commerce sustainable and efficient through digital innovation.

## Key Goals:

- - Simplify the process of listing and finding used items.
  - Encourage sustainability through product reuse.
  - Build a verified student community for safe transactions.
  - Foster peer-to-peer interaction through direct communication tools.

### 1) Product Listings:

- Students can upload item details with clear images, pricing, and descriptions.

### 2) In-App Chat:

- Enables instant, secure communication between buyers and sellers to negotiate and clarify product details.

### 3. Category Filtering:

- Search items based on type — books, gadgets, furniture, fashion, etc.

### 4) User Verification:

- Only university-verified users can sign up using official email IDs, ensuring authenticity.

### 5) Ratings & Feedback:

- Allows users to leave reviews, promoting trust and reliability in transactions.

# KEY FEATURES





# USER EXPERIENCE GOAL



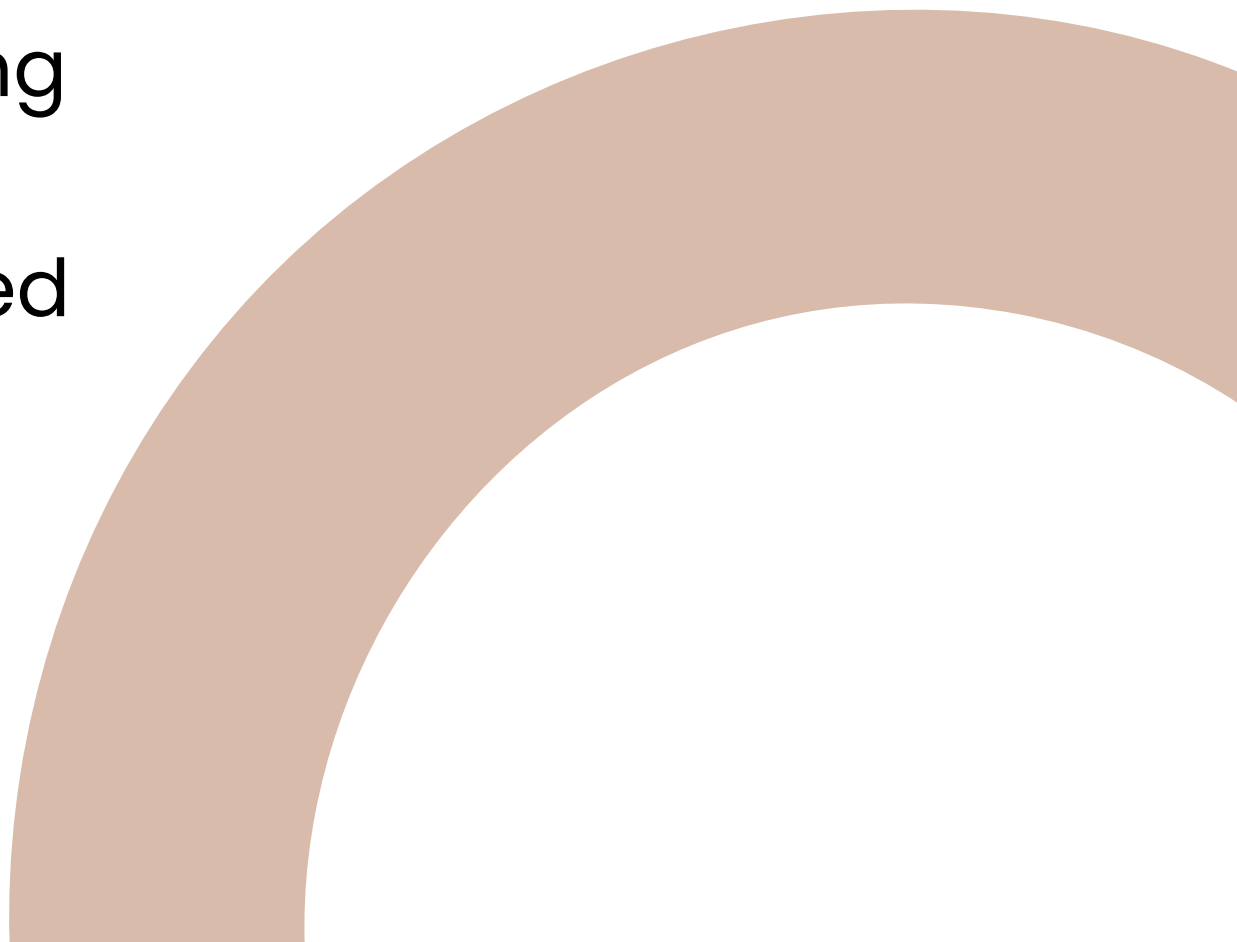
- **Simple Listing Process:**  
Item upload is quick and intuitive, requiring minimal information while maintaining clarity.

- **Clean & Interactive Interface:**  
Built for smooth navigation with a responsive layout for both desktop and mobile users.

- **Secure Communication:**  
Encrypted chat ensures privacy and security between users.



# Submission & Purchase Flow

- **Listing:** Seller uploads item details, image, and price.
  - **Discovery:** Buyer browses listings or searches for specific items.
  - **Communication:** Buyer initiates chat to ask questions or negotiate.
  - **Transaction:** Both parties agree on price and meeting method.
  - **Completion:** Item is marked as sold, and feedback is exchanged.
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### **For Sellers:**

- Post listings with detailed descriptions and images.
- Edit or delete items as needed.
- Track item status (Available / Sold).

### **For Buyers:**

- Browse or filter items by category and price.
- Contact sellers directly through chat.
- Save favorite items for later.

### **User Profiles:**

Each profile maintains a history of listings, purchases, chats, and reviews, helping students manage their marketplace activity easily.



# **User Features**





# Verification & Security



○ **Verified Access:** Only users with valid university email addresses can register.

○ **Data Privacy:** All user data is encrypted, ensuring personal information remains confidential.

○ **Admin Oversight:** Admins review suspicious listings or repetitive reports to ensure safety.

○ **Community Trust:** Transparent profiles and feedback help maintain a trustworthy marketplace.





# ADMIN PANEL

## **Admin Responsibilities:**

- Approve or reject listings based on content quality and compliance.
- Monitor flagged posts and handle user reports efficiently.
- Resolve disputes between users fairly.
- Track key statistics such as active users, listings, and transactions.

## **Dashboard Highlights:**

- Real-time insights into platform performance and user engagement to maintain smooth operation.

# Tech Stack



## **Frontend:**

React.js: Enables modular, fast, and dynamic UI updates.

Tailwind CSS: Provides responsive design and easy customization.

## **Backend:**

Node.js + Express.js: Powers the API for fast and scalable server communication.

## **Database:**

MongoDB: Stores all product, chat, and user data efficiently in a flexible schema.

## **Authentication & Notifications:**

Firebase: Provides secure login, user verification, and real-time updates on new messages and listings.

# System Architecture



System architecture connects three core layers:

- **Frontend (React):** User interface for buyers, sellers, and admins.
- **Backend (Node.js/Express):** Processes requests, handles authentication, and manages business logic.
- **Database (MongoDB):** Stores user profiles, item details, and chats.

This layered architecture ensures scalability, maintainability, and real-time responsiveness.

### **For Students:**

- Access affordable goods and save money.
- Sell unused items conveniently within campus.

### **For Sellers:**

- Earn extra cash while decluttering personal spaces.

### **For the University:**

- Encourages sustainability by promoting reuse.
- Strengthens community connections among students.

### **Overall Impact:**

Creates a circular economy within campus, reducing waste and supporting student collaboration.



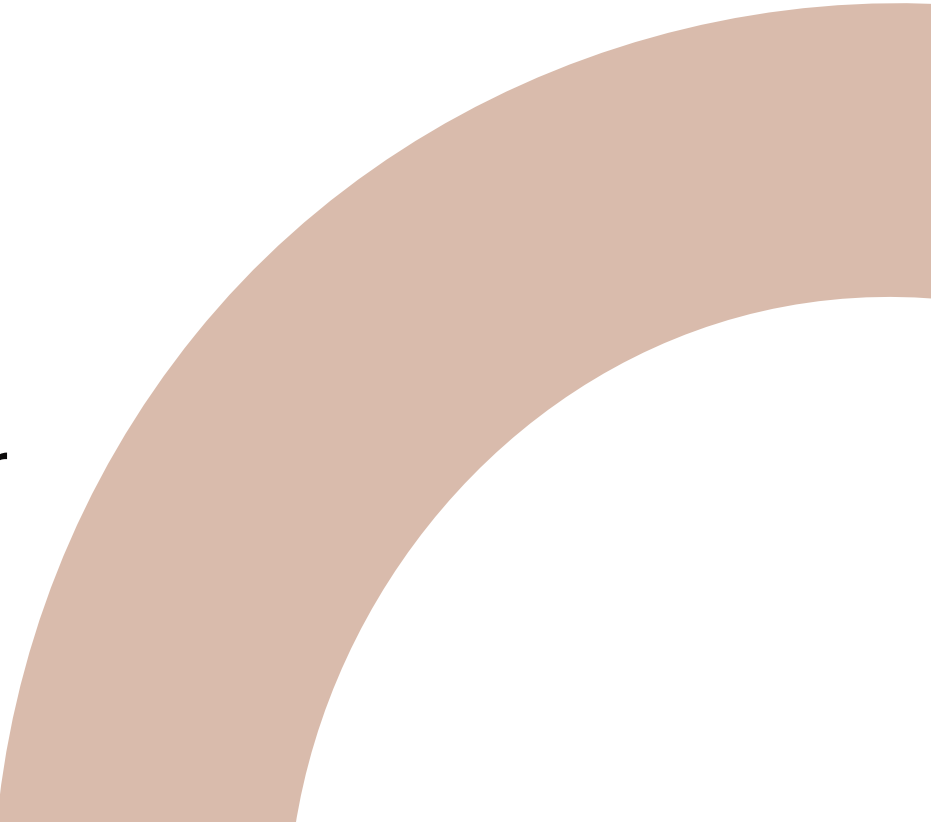
# **Benefits**





# Future Scope



- **AI-Powered Price Suggestions:** Suggests fair prices for listings.
  - **Secure Payment Gateway:** Enables safe digital transactions directly on the platform.
  - **Campus Delivery Options:** Integration with local delivery services or pickup points.
  - **Cross-Campus Marketplace:** Expansion to connect nearby colleges for larger trade networks.
  - **Mobile App Launch:** Dedicated Android and iOS apps for easy access and notifications.
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# Conclusion

- College Bazaar bridges the gap between buyers and sellers in university environments by offering a secure, student-exclusive marketplace. It simplifies peer-to-peer transactions while building a responsible, sustainability-driven culture on campus.
- The platform combines convenience with trust — from verified logins and moderated listings to a friendly chat interface that fosters collaboration. Its scalable architecture and modern tech stack ensure long-term adaptability and reliability.
- Beyond being a trading platform, College Bazaar aims to create a stronger, greener, and more connected campus community — one where every student can contribute to and benefit from a sustainable cycle of sharing and reusing.